

a fixed valve seat to cooperate with the valve-closure member to open and close a valve;
and

a downstream valve end including a component and a fuel outlet, wherein:

the fuel outlet includes at least one discharge orifice of the component,
the at least one discharge orifice is arranged downstream of the fixed valve seat,
the component includes a coating around the at least one discharge orifice,
including at least in an outlet area of the at least one discharge orifice, and
the coating includes a layer containing fluorine.

17. (New) The fuel injector of claim 16, wherein the layer containing fluorine includes fluorosilicate (FAS).

18. (New) The fuel injector of claim 16, wherein the layer containing fluorine includes a heat-resistant PTFE-similar layer.

19. (New) The fuel injector of claim 16, wherein the internal combustion engine includes an externally supplied ignition.

20. (New) The fuel injector of claim 16, wherein the internal combustion engine includes an auto-ignition.

21. (New) The fuel injector of claim 16, wherein the coating is provided in a ring shape around the at least one discharge orifice on a downstream surface of the component.

22. (New) The fuel injector of claim 16, wherein the coating is provided over an entire surface of a downstream surface of the component.

23. (New) The fuel injector of claim 21, wherein the coating extends into the at least one discharge orifice.

24. (New) The fuel injector of claim 16, wherein the layer containing fluorine is applicable by spraying.